

ABSTRACT OF THE DISCLOURE

A method for producing white light emission by means of secondary light excitation comprising the application of a light source such as Light Emitting diode (LED) or Laser Diode (LD) which may generate ultra violet light or violet light, with wavelength between 360 ~ 420 nm, to excite blue phosphor to produce the broadband first exciting light spectrum having blue light as the main wave crest; the first exciting light in turn excites the yellow phosphor having lower energy level to produce the broadband secondary exciting light having yellow light as the main wave crest; the amount of the two phosphors are adjusted to some specific ratio so that the first exciting light spectrum and the secondary exciting light spectrum emitted by the phosphors enable the light-blend and complementary effect to produce a complete white light spectrum; Besides, red phosphor or green phosphor which may be excited by ultra violet or violet light may be added to adjust the color rendering effect and color temperature of the white light produced by this method and obtain other kinds of light source of different color.